

## WEST Search History

DATE: Tuesday, September 30, 2003

**Set Name Query**  
side by side

**Hit Count Set Name**  
result set

*DB=USPT,PGPB; PLUR=YES; OP=ADJ*

L9	L8 and l5	20	L9
L8	L7 and @ad<19990205	178	L8
L7	L6 and inhibit\$7	269	L7
L6	tryptophan synthase or Indoleglycerol phosphate aldolase or Tryptophan synthetase or Tryptophan desmolase or Tryptophan synthase or Tryptophan synthetase	311	L6
L5	L4 or l3 or l2 or l1	14264	L5
L4	(((435/193)!.CCLS.))	1325	L4
L3	(((435/183)!.CCLS.))	3917	L3
L2	(((435/7.1)!.CCLS.))	6733	L2
L1	(((435/4)!.CCLS.))	3602	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 20 of 20 returned.

☐ 1. Document ID: US 6455323 B1

L9: Entry 1 of 20

File: USPT

Sep 24, 2002

US-PAT-NO: 6455323

DOCUMENT-IDENTIFIER: US 6455323 B1

TITLE: Anti-bacterial methods and materials

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc
Image												

☐ 2. Document ID: US 6342345 B1

L9: Entry 2 of 20

File: USPT

Jan 29, 2002

US-PAT-NO: 6342345

DOCUMENT-IDENTIFIER: US 6342345 B1

TITLE: Detection of molecular interactions by reporter subunit complementation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments		KIMC	Draw Desc
Image												

☐ 3. Document ID: US 6331400 B1

L9: Entry 3 of 20

File: USPT

Dec 18, 2001

US-PAT-NO: 6331400

DOCUMENT-IDENTIFIER: US 6331400 B1

TITLE: Method for characterization of the fine structure of protein binding sites

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments		KIMC	Draw Desc
Image												

☐ 4. Document ID: US 6291189 B1

L9: Entry 4 of 20

File: USPT

Sep 18, 2001

US-PAT-NO: 6291189

DOCUMENT-IDENTIFIER: US 6291189 B1

TITLE: Methods for the high-resolution identification of solvent-accessible amide

hydrogens in polypeptides or proteins and for characterization of the fine structure of protein binding sites

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
Image											

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☐ 5. Document ID: US 6248574 B1

L9: Entry 5 of 20

File: USPT

Jun 19, 2001

US-PAT-NO: 6248574

DOCUMENT-IDENTIFIER: US 6248574 B1

TITLE: Polypeptides selectively reactive with antibodies against human immunodeficiency virus and vaccines comprising the polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
Image											

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☐ 6. Document ID: US 6117640 A

L9: Entry 6 of 20

File: USPT

Sep 12, 2000

US-PAT-NO: 6117640

DOCUMENT-IDENTIFIER: US 6117640 A

TITLE: Recombinant vaccine made in E. coli against dengue virus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
Image											

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☐ 7. Document ID: US 6093548 A

L9: Entry 7 of 20

File: USPT

Jul 25, 2000

US-PAT-NO: 6093548

DOCUMENT-IDENTIFIER: US 6093548 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Detection and quantitation of MN-specific antibodies.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
Image											

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☐ 8. Document ID: US 6020141 A

L9: Entry 8 of 20

File: USPT

Feb 1, 2000

US-PAT-NO: 6020141

DOCUMENT-IDENTIFIER: US 6020141 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Microplate thermal shift assay for ligand development and multi-variable protein chemistry optimization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMTC	Draw Desc
Image											

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☐ 9. Document ID: US 6013772 A

L9: Entry 9 of 20

File: USPT

Jan 11, 2000

US-PAT-NO: 6013772

DOCUMENT-IDENTIFIER: US 6013772 A

TITLE: Antibody preparations specifically binding to unique determinants of CEA antigens or fragments thereof and use of the antibody preparations in immunoassays

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMTC	Draw Desc
Image											

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☐ 10. Document ID: US 6004768 A

L9: Entry 10 of 20

File: USPT

Dec 21, 1999

US-PAT-NO: 6004768

DOCUMENT-IDENTIFIER: US 6004768 A

TITLE: Biosensors, extracorporeal devices and methods for detecting substances using crosslinked protein crystals

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMTC	Draw Desc
Image											

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☐ 11. Document ID: US 6004535 A

L9: Entry 11 of 20

File: USPT

Dec 21, 1999

US-PAT-NO: 6004535

DOCUMENT-IDENTIFIER: US 6004535 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Methods of imaging neoplastic disease and of detecting and quantifying MN protein/polypeptide using MN-specific antibodies

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMTC	Draw Desc
Image											

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☐ 12. Document ID: US 5688651 A

L9: Entry 12 of 20

File: USPT

Nov 18, 1997

US-PAT-NO: 5688651

DOCUMENT-IDENTIFIER: US 5688651 A

TITLE: Prevention of protein aggregation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Image									

KIMC	Draw Desc
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☐ 13. Document ID: US 5665537 A

L9: Entry 13 of 20

File: USPT

Sep 9, 1997

US-PAT-NO: 5665537

DOCUMENT-IDENTIFIER: US 5665537 A

TITLE: Herpes simplex virus type 2-glycoprotein G proteins and polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Image									

KIMC	Draw Desc
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☐ 14. Document ID: US 5658739 A

L9: Entry 14 of 20

File: USPT

Aug 19, 1997

US-PAT-NO: 5658739

DOCUMENT-IDENTIFIER: US 5658739 A

TITLE: Method for characterization of the fine structure of protein binding sites

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Image									

KIMC	Draw Desc
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☐ 15. Document ID: US 5624805 A

L9: Entry 15 of 20

File: USPT

Apr 29, 1997

US-PAT-NO: 5624805

DOCUMENT-IDENTIFIER: US 5624805 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Uses for antibodies which bind to human somatomedin carrier protein subunits

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Image									

KIMC	Draw Desc
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☐ 16. Document ID: US 5494816 A

L9: Entry 16 of 20

File: USPT

Feb 27, 1996

US-PAT-NO: 5494816

DOCUMENT-IDENTIFIER: US 5494816 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Enhanced indole biosynthesis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC	Draw Desc
Image											

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☐ 17. Document ID: US 5407824 A

L9: Entry 17 of 20

File: USPT

Apr 18, 1995

US-PAT-NO: 5407824

DOCUMENT-IDENTIFIER: US 5407824 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Recombinant coryneform bacterium for producing L-tryptophan

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC	Draw Desc
Image											

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☐ 18. Document ID: US 5180873 A

L9: Entry 18 of 20

File: USPT

Jan 19, 1993

US-PAT-NO: 5180873

DOCUMENT-IDENTIFIER: US 5180873 A

TITLE: Transformation of plants to introduce closely linked markers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC	Draw Desc
Image											

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☐ 19. Document ID: US 4818682 A

L9: Entry 19 of 20

File: USPT

Apr 4, 1989

US-PAT-NO: 4818682

DOCUMENT-IDENTIFIER: US 4818682 A

TITLE: In vitro detection of gastrointestinal cancer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC	Draw Desc
Image											

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☐ 20. Document ID: US 4721673 A

L9: Entry 20 of 20

File: USPT

Jan 26, 1988

US-PAT-NO: 4721673

DOCUMENT-IDENTIFIER: US 4721673 A

TITLE: Recovery and activation process for microbially produced calf prochymosin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Image									

KMC	Draw Desc
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Terms	Documents
L8 and l5	20

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(FILE 'HOME' ENTERED AT 12:05:18 ON 30 SEP 2003)

FILE 'REGISTRY' ENTERED AT 12:05:58 ON 30 SEP 2003  
L1 1 S 9014-52-2/RN

FILE 'HCAPLUS' ENTERED AT 12:06:14 ON 30 SEP 2003

FILE 'REGISTRY' ENTERED AT 12:06:16 ON 30 SEP 2003

SET SMARTSELECT ON

L2 SEL L1 1- CHEM : 9 TERMS

SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 12:06:17 ON 30 SEP 2003

L3 1538 S L2

L4 128 S (ARYL SULFIDE PHOSPHONATE) OR (ARYL? (L) SULFI? (L) PHOSPHON?

L5 6 S HERBICID? (L) L3

L6 0 S L5 (L) L4

=> s 15 and pd<19990205

19589289 PD<19990205

(PD<19990205)

L7 4 L5 AND PD<19990205

=> d ibib ab 1-4

L7 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:574166 HCAPLUS  
DOCUMENT NUMBER: 131:319470  
TITLE: Crystallographic studies of phosphonate-based  
.alpha.-reaction transition-state analogues complexed  
to tryptophan synthase  
AUTHOR(S): Sachpatzidis, Aristidis; Dealwis, Chris; Lubetsky,  
Jodi B.; Liang, Po-Huang; Anderson, Karen S.; Lolis,  
Elias  
CORPORATE SOURCE: Department of Pharmacology, Yale University School of  
Medicine, New Haven, CT, 06520, USA  
SOURCE: Biochemistry (1999), 38(39), 12665-12674  
CODEN: BICHAW; ISSN: 0006-2960  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB In an effort to use a structure-based approach for the design of new  
**herbicides**, the crystal structures of complexes of  
**tryptophan synthase** with a series of phosphonate enzyme  
inhibitors were detd. at 2.3 .ANG. or higher resolu. These inhibitors  
were designed to mimic the transition state formed during the  
.alpha.-reaction of the enzyme and, as expected, have affinities much  
greater than that of the natural substrate indole-3-glycerol phosphate or  
its nonhydrolyzable analog indole propanol phosphate (IPP). These  
inhibitors are ortho-substituted arylthioalkylphosphonate derivs. that  
have an sp<sup>3</sup>-hybridized sulfur atom, designed to mimic the putative  
tetrahedral transition state at the C3 atom of the indole, and lack the C2  
atom to allow for higher conformational flexibility. Overall, the  
inhibitors bind in a fashion similar to that of IPP. Glu-49 and Phe-212  
are the two active site residues whose conformation changes upon inhibitor  
binding. A very short hydrogen bond between a phosphonate oxygen and the  
Ser-235 hydroxyl oxygen may be responsible for stabilization of the  
enzyme-inhibitor complexes. Implications for the mechanism of catalysis  
as well as directions for more potent inhibitors are discussed.

REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:571274 HCAPLUS  
DOCUMENT NUMBER: 131:210375  
TITLE: Rational herbicide design by inhibition of tryptophan  
biosynthesis  
AUTHOR(S): Finn, John; Langevine, Charles; Birk, Iwona; Birk,  
Jeff; Nickerson, Karen; Rodaway, Shirley  
CORPORATE SOURCE: American Cyanamid, Agricultural Research, Princeton,  
NJ, 08540, USA  
SOURCE: Bioorganic & Medicinal Chemistry Letters (1999  
, 9(16), 2297-2302  
CODEN: BMCLE8; ISSN: 0960-894X  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Compds. designed to mimic the **tryptophan synthase**  
.alpha. subunit reactive intermediate were potent inhibitors of the  
enzyme. These compds. are **herbicidal** and the **herbicidal**  
mode of action was be due to disruption of tryptophan biosynthesis. The  
compds. are 4-(phenyl)butylphosphonates, which were prepd. and tested for  
**herbicidal** activity against Arabidopsis thaliana.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1998:621327 HCAPLUS  
DOCUMENT NUMBER: 129:257866  
TITLE: Maize Bx1 gene for an enzyme of benzoxazinone  
biosynthesis and its use in developing insect-,  
disease-, and herbicide-resistant plants

INVENTOR(S) : Chomet, Paul; Frey, Monika; Gierl, Alfons  
PATENT ASSIGNEE(S) : Dekalb Genetics Corp., USA  
SOURCE: PCT Int. Appl., 137 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9840505	A1	19980917	WO 1998-US5078	19980313 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9864663	A1	19980929	AU 1998-64663	19980313 <--
US 6331660	B1	20011218	US 1998-39046	19980313
PRIORITY APPLN. INFO.:				
			US 1997-40513P	P 19970313
			WO 1998-US5078	W 19980313

AB The maize Bx1 gene involved in benzoxazinone biosynthesis is cloned and characterized. This gene is distinct from a previously described gene for a cytochrome P 450 mapping close to the Bx1. This gene, as well as other genes involved in benzoxazinone biosynthesis, provide valuable tools for the prodn. of transgenic plants with increased levels of benzoxazinone synthesis, and therefore, resistance to insect infestation, herbicide damage and disease. The gene was cloned by transposon tagging with Mu followed by AIMS (amplification of insertion mutagenized sites). The block in benzoxazinone biosynthesis arising from mutation in Bx1 could be alleviated by supplying indole, indicating a block in indole formation. The enzyme encoded by the Bx1 gene is demonstrated to be an indole synthase. The gene is expressed in young (5 day) roots and shoots.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1989:472994 HCAPLUS

DOCUMENT NUMBER: 111:72994

TITLE: Screening of **tryptophan synthase** inhibitors as leads of **herbicide** candidates

AUTHOR(S): Shuto, Akira; Ohgai, Mayumi; Eto, Morifusa

CORPORATE SOURCE: Dep. Agric. Chem., Kyushu Univ., Fukuoka, 812, Japan

SOURCE: Nippon Noyaku Gakkaishi (1989), 14(1), 69-74

CODEN: NNGADV; ISSN: 0385-1559

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Of 53 heterocyclic compds. and 10 mercaptans tested, 4-(dimethylamino)-(I), 4-(diethylamino)-, and 4-(N-methyl-N-phenylamino)pyridines and 2-mercaptobenzimidazole (II) inhibited tryptophan synthase from Escherichia coli most strongly, with median inhibitory concns. of 0.067, 0.061, 0.072, and 0.045 mM, resp. I had no marked effect on whole plants, whereas II showed considerable postemergence phytotoxicity.

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